

RA6

Memo For Record

Copy No. 6

Ser. RAQ-301

2 Sheets

March 18, 1960

25X1A

From: [redacted]

Project: OX

25X1A

Subject: Report of Visit to [redacted]

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On 2 March 1960 [redacted] visited [redacted] and contacted the following people:

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[redacted]

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They described present and planned USAF equipment for determining V/H by passive means. Currently used in the RF-101 are the LA-19 and LA-20. This tracker and converter are made by [redacted] operate up to about 8000 feet altitude, and have a specified accuracy of ± 5 to $\pm 15\%$. On actual tests in restricted flights an accuracy of $\pm 3\%$ has been achieved.

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This equipment will be replaced by the LA-95A and LA-96A in 1960. These are also made by [redacted] have an expected accuracy of $\pm 3\%$ for altitudes up to 50,000 feet. They represent only a product improvement of the LA-19 and 20 with better packaging and gyro stabilized optics.

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At present development contracts are out to [redacted] (600)-37364 and [redacted] (600)-37365 for V/H detection with expected accuracy of $\pm 3\%$ and design goals of $\pm 1\%$ and design goals of $\pm 1\%$ up to [redacted] feet altitude. [redacted] is using an autocorrelation technique [redacted]. They are currently in an overrun status and are making no progress until additional funds are available. No equipment has been delivered.

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[redacted] is using a technique of locking on a bright object (Solo System) and tracking it to determine the angular rate. They hope to deliver a detector by April 1960.

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[redacted] indicated that a European version using autocorrelation has been invented by [redacted] and is handled in the U. S. [redacted]. There is no hardware available in this country, but the equipment is reported to be capable of $1/4$ to $1/2\%$ accuracy.

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[] also reported that [] had proposed a novel scheme for detecting image motion in the image plane. The technique is proprietary and he suggested we contact [] if we are interested.

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WADD has recently held a bidder's briefing aimed at equipment for use beyond 1961. The required performance will be 0.5% with a design goal of 0.1%. These accuracies will be required for the high acuity cameras now being developed (KS-50, KS-25, KS-43) for USAF.

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[] suggested that additional technical information could be obtained directly from the contractors. [] supplied the following data on the LA 95 and 96.

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Name	LA-95A Converter	LA-96A Detector
Weight (lbs.)	12.8	8
Power		
400 115V	0.9 amp.	.15 amp.
28 VDC	0.24 amp.	.7 amp.
Total	111 watts	36.9 watts
Grid Resolution		.02 inches
Lens, e.f.		2.0 inches
Range		.01 - 7.6 rad/sec.
AF Manuals	10A6-19-3-3	10A6-9-5-3
	10A6-19-3-4	10A6-9-5-4
AF Specs	MIL-C-26535 (USAF)	MIL-D-26534 (USAF)

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from []

The specifications have been received and are available
The manuals have not yet been issued.

RAG/MDG

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